



Colorado, Springs,
Colorado

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Pikes Peak Radio Amateur Association, Inc.
P.O. Box 16521
Colorado Springs, Colorado 80935

March 1997



FIRST CLASS MAIL

1 Renew before 08/31/97
ROBERT ROLLER
WB7WHT
4846 HERNDON CIR.
COLO. SPGS., CO 80920



BEAT



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*This Officer/Director is completing the second year of the two-year term to which they were elected.

The Ø-Beat is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., PO Box 16521, Colorado Springs, Colorado 80935. For membership and subscription information see the last page of this publication. Monthly advertising rates: Full page, \$48; Half page, \$24; Quarter page, \$12; Business card, \$6. These rates are billed quarterly. Send your ad requests and payments to: PPRAA, PO Box 16521, Colorado Springs, Colorado 80935.

Check out the PPRAA page on the World Wide Web! Go to: <http://rainbow.rnii.com/~mugele/ppraa/>

Deadline for submission of articles or advertisements is the 20th of each month. Submissions are accepted in any form. Articles should be sent directly to the Ø-Beat Editor (email to kdøju@juno.com is preferred.) Permission is granted to reprint articles provided credit is given to both the author and this publication.

License Exams

License examinations sponsored by the Pikes Peak Radio Amateur Association are held on the 2nd Saturday of February, April, June, August, October, and December.

Testing takes place at 9 A.M. at:

Denver Technical College
225 South Union
Colorado Springs

Everyone is seated on a walk-in basis. Those wishing to take an exam should bring the following items:

1. \$6.25 (preferably a check/money order made out to ARRL/VEC) for any exam other than element 1A or 2.
2. Picture identification.
3. A copy of your current amateur radio license, and/or a copy of any examination credit you have, as well as the signed original. We keep the copies.
4. A pen, pencils, and a calculator if you need one.

If you have any questions, call Erik Mugele, KGØXE at 596-5345. Please do not call Denver Technical College.

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Reminder — General Membership Meeting

The next General Membership Meeting of the Pikes Peak Radio Amateur Association will be on the second Wednesday of this month at the Disabled American Veterans Hall, 6880 Palmer Park Blvd. The meeting will start at 7 PM.

Zero Beat

Board of Directors Meeting Minutes of February 1997

The PPRAA Board meeting was called to order by the President Jeff NØJLH at the home of

W12000 Greg WAØOOD at 1905 on February 17, 1997. The following members were present: Jeff-NØJLH, Aaron-KD6FLM, Rob-WB7WHT, Bill-KDØJU, Les-KCØNC, Dennis-KBØSXC, Jody-KAØROZ, for Mark-NØEPF, and Greg-WAØOOD. W12000

Old Business: Discussed status of Club trailer. Rob presented a rough draft of the Swap Fest flier, and led a discussion of a possible contest to name our Swap Fest.

New Business: Programs
March - Mark Foster on Voice of America,

April- Batteries-R-Us, Dates:
June 28, 29 for Field Day,

August 10 or 17 for Rob
the Picnic (Date not set). Ron read letter from Dan Scott stating his desire to head up the Scouts Jamboree on the Air. Also Scott asked about the possibility of Boy Scouts participating at Field Day. After discussion, Ron made a motion

Rob

to purchase a video tape for \$12.00 concerning the SAREX program. Motion carried. The Board also discussed the Budget, Dues, 501c3 tax status, and a special 30 year Ø-Beat. After much discussion, Rob made the following motion: "For a bona fide communications emergency, the club's communications equipment, including the trailer, as requested for the emergency, be released to a club member upon approval of a board member. Motion carried.

Meeting adjourned at 8:21.
Submitted by Les KCØNC
(acting secretary)

The February 12, 1997 meeting of the Pikes Peak Radio Amateur Association was called to order at 7:04 PM by Rob, WB7WHT. 47 members and guests introduced themselves.

After introductions, the treasurers report was read and accepted. The minutes of the last meeting were accepted with a change to the wording - "the monthly door prize drawing was conducted by Aaron"

It was reported that the Swap fest committee has acquired a Garmon 40 GPS, an antenna

analyzer, an ICOM 707, and MFJ 6 meter transceiver.

A suggestion was made concerning the transmission of meetings on ATV.

Bill, NØNJX, indicated that the pulse type noise interference had been traced and corrected. An FAA weather station tower was picket fencing. The transmitter was changed & the problem (hopefully) solved.

Hammy of the month went to Les, KCØNC.

A VE report was given and it was noted that VE volunteers are welcome to apply.

A Ham fest meeting is scheduled for March 8 at 10 am at the Falcon Police Substation.

It was noted that a Ham display is currently at the Holly Library branch.

A request was made that members that know how to contact CCARC please contact a board member with that information.

There being no further business, the meeting went to break at 7:25 PM.

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After the break, Aaron conducted his monthly duties.

The program for this month was on antennas, with the following displays:

Greg WA2OOD - Electronic rotated 2 Mtr. DF antenna.

Bill NØNJX - 2 Mtr. "Arrow" Beam, R.F. attenuator, 70 cm. beam, and H.F. directional loop.

Dave NØUVR - 2 Mtr. 2 element Quad, and back packing Quad.

Bob NØRNQ - 1/4 wave portable 2 Mtr. vertical.

WD4DHR
Pete WD4WHR - Remote tune H.F. Loop by MFJ.

Meeting adjourned at 2012
Submitted by Mark NØEPF and Les KCØNC

El Paso County HF Roundtable

Sunday evenings just after the El Paso County RACES 7:30 PM (local) HF net, on 28.385 MHz.

Everyone is invited to check in.

CCARC MEETING

The next CCARC meeting will be on Saturday March 29, 1997 at 1 PM in Lakewood at 12700 W 27th Ave. Talk-in on 145.49 and 146.52.

If you want to go call or e-mail me and I'll give more detailed directions.

73 Ron NKØP 593-8352 or deutschra@aol.com

OM/YL

March

LUNCH BUNCH

The Lunch Bunch will get together for lunch and visiting Thursday, March 20th, Noon time, at the Hometown Buffet in the shops of the Bluffs 3650 Austin Bluffs Parkway in Colorado Springs. An invitation is extended to all of you who can join us.

Rosie Calaway, WAØMNL
471-9965

ROUTINE PUBLIC SERVICE CALENDAR, 1997

Contact Mike Stansberry, KØTER

DATE EVENT

Apr 26, Sat.	March of Dimes Walk
Jun 14, Sat.	Tour de Cure
Jul 04, Fri.	Pikes Auto Hill Climb
Aug 16, Sat.	Pikes Peak Ascent
Aug 17, Sun.	Pikes Peak Marathon

Short Bits (by WB7WHT)

- I've been getting quite a few ARRL members renewing through the club lately. Hope that continues. Thanks - that commission helps out!
- Longmont ARC Hamfest, April 5. Contact Jim Deeming, KBØMED, (303) 651-7764, or jwdeeming@compuserve.com.
- PPRAA Hamfest, May 17. Contact Carlos Caro, KBØREI, (719) 632-1569, or ccaro@ccs.lmco.com.

A SAREX Mission? Maybe! (by WB7WHT)

The prospect of a Colorado Springs elementary school hosting a SAREX contact is looking better and better. Several days ago I spoke with Rosalie White at the ARRL's Educational Activities Department. The reason I called the ARRL was to check on the status of our SAREX application.

Yes, our club has a SAREX application on file. A little history here for some of you. Back in 1995 I started working with one of the teachers at my daughter's elementary school, Prairie Hills Elementary. There are at least two teachers there very much interested in NASA activities; they were very receptive when I approached them in 1995. At that time in 1995, the PPRAA agreed to be the club sponsoring the SAREX application. Some of you may remember that being a very small topic of discussion at a club meeting. Anyway it took a few months but we finally got an application in to the ARRL. It's been sitting in a file ever since. *Until now.*

I had called to see what's happening with that application. Coincidentally Ms. White was looking through applications from 1995, including ours, to find schools that still wanted to participate. Of course, I told her we were still quite interested. So Ms White has pulled our application out,

Zero Beat

noting that we are still interested, and will put it in the queue for a contact possibly in the next 3 months!

Now, for me, this is exciting! And I hope I can scrounge up enough of you to be just as excited to help out with this endeavor.

I don't have anything firm, other than what I've said here. No date is proposed nor is anything confirmed. I suppose it's possible that nothing could come out of this. But I'm trying to be optimistic about the whole thing. I'll keep everyone posted. I do know it would be a Mir contact, probably with the current NASA astronaut or the next astronaut. I understand the inclination of the orbit is about 51

degrees, real good for our latitude of 39 degrees.

There's a lot of planning to do. So far what I've done is worked with the school and received their go-ahead (back in 1995, so I hope they're still interested). We'd have to plan out an earth station for 2-meters, see what the educators at Prairie Hills want to do with the program to fit it into their school plans, and set up some kind of media coverage. I'm sure there's more. Perhaps finding a local company that would be willing to exchange some free advertising to loan us some decent computers for tracking during the event. Much more.

So, do I hear any volunteers? NØNTX and WØVO so far have stepped forward. As I get more information from the ARRL and AMSAT I'll know more about how to approach this. I've already got some preliminary information but it'll help more when I speak to someone from ARRL or AMSAT that has gone through one of these coordinated SAREX contacts.

Let me know if you want to help. At this time I don't really know how many folks we'd need nor for what purpose, but I know it'll be more than 1 or 2 folks. I know some of you have made shuttle or OSCAR contacts so I can always use that kind of expertise.



Sappy Birthday!!

Our members with birthdays in March are:

KBØRLI KBØSHQ KBØTSM KDØNB KDØMQF KØSPS KAØATW
KAØWIE KA3ZRQ KBØLGK KBØPPM KBØPQM KBØYCI KGØAE
KGØXE KG8EP NØCTV NØEOP NØIKF NØKUU NØNKP NØOUD
NØQYW NØXFX NØXWN NØZCZ NØZFX NØZPW N2IWZ W2TJO
WØSP WA9AAB and WBØIMH.

Treasurer's Report

This will my first treasurer's column, and I'd like to make available to those interested the monthly report either by e-mail or by phone. We decided that, since the Ø-Beat goes out to others not in the club, the actual treasurer's report won't be printed in the Ø-Beat. It's all your money, however, so send me e-mail to "rollerr@usa.net" or call me if you want to see the monthly report.

With that, here's a recap of what I've done recently. In October and again in January the quarterly raffle report was mailed to the Secretary of State. The Oct report covered the period that included the '96 hamfest. I also mailed the donation to Amateur Radio Newline. We made our periodic donation to the DAV for use of the hall, and we approved a donation to the Tesla Society for the classes. I've finished up a tentative budget based on last year to see how we're spending our money. I'll report on it at the March meeting. If you won't be there give me a call.

Finally, after learning that District 20 doubled their fees for Liberty High, not only are we moving the 'fest, but I'd like to revisit the IRC 501(c)(3) tax exemption status. What I'd like to do in the next few issues of the Ø-Beat is present some aspect of this code and present the benefits, disadvantages (yes, there are disadvantages) and requirements to achieve this status.

501(c) - To (3) or not to (3) - That is the question!

Episode #1: Background. First of all, what does this number mean? Where does it come from? 501(c)(3) is a section of the Internal Revenue Code which defines corporations that are exempt from corporate income taxes.

Specifically, Section 501 is "Exemption from tax on corporations, certain trusts, etc.", (c) is "List of exempt organizations", and (3) says "Corporations ... organized and operated exclusively for religious, charitable, scientific, testing for public safety, literary, or educational purposes ... no part of the net earnings [benefits] any private shareholder or individual, no ... part of

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the activities of which is carrying on propaganda, or otherwise attempting, to influence legislation ..., and which does not participate in ... any political campaign on behalf of (or in opposition to) any candidate for public office."

The main reason corporations seek 501(c)(3) status is to make it easier for others to donate and be able to deduct those donations from their income taxes, and for us to take advantage of rates and fees available to certain nonprofit corporations. If this is something we want to do, it won't happen overnight. It'll take some time to prepare everything necessary. I can say that some of the requirements are already fulfilled. We've got Articles of Incorporation, By-Laws, a board of directors and officers, we've been around more than five years, and other things which I'll discuss in more detail later.

Now, that didn't say a whole lot about it. The more interesting information is what are the costs and benefits to the club. I'll address those next month (since I'm out of space here) followed by the requirements placed on the club to become a 501(c)(3) corporation.

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Editor's Corner

Well another month has successfully gone by. Since we did not have very many submissions except for some board members, there are some ARRL Bulletins at the end as fillers. Remember, this is YOUR newsletter! Please submit your articles NOW! MS word format gets top priority. ASCII is OK. Hand written notes are at the bottom of the priority as my typing speed is slow! Type written pages in heavy print, I can scan in.

So get those articles in!
Have a great month!

73,
Bill, KDØJU

For Sale/Wanted
(by WØRW)

- Mayday UPS 150/250 watts \$100

- Motorola FSTR Base Station 154 MHz \$100
- Motorola Base 146.52 \$50
- Tektronix 575 Curve Tracer \$350
- HP5245L 50-500MHz counter \$50
- HP5381A 80MHz Counter \$100
- Gonset G150 Business Communicator (aircraft band) \$100
- Stereo Speakers (2) 100W \$50
- HP-34702 Multimeter \$50
- RT159/URC4 Survival Radio \$50
- Lowery Organ (has 25 foot pedals & 2 keyboards) \$200
- Kenwood TH21A 2 meter HT w/ctss (PL) \$150
- GR Resistor decade box \$25
- HP608E Signal Generator 10-480MHz \$200
- Singer SG-1000 Signal Generator w/freq disp. 62KHz-500MHz \$110
- Dana 350 Counter 20Hz to 12.4GHz \$100
- Teledyne Geotech Helicorder seismometer with amplifiers and det. \$500
- 12" Newtonian Telescope F6 on tripod \$800
- WANTED: Soft cover case for Icom ICw2A w/BP84; 11-el 2-meter Yagi; HeNe laser. P.O. Box 6069, COS/CO 80934 or wØrw@kktv.com

For Sale/Wanted
(by KDØJU)

- QUAD SPIDER HUB by Van Gorden Engineering, one set comes with hardware in original packing; two other sets have no hardware. May be

Pikes Peak Radio Amateur Association

used for construction of Cubical Quads, Delta loops, Turnstile Antennas and more. Will sell for \$25 or Trade for a BayCom TNC

- ICOM Tone Squelch Unit UT-40; Can be installed in IC-2G/4G/12G or IC-32A/E Will sell for \$19.

For Sale/Wanted (by KOC1)

- Radio Shack 20-13 Discone Scanner Antenna; 25 - 300mhz receive, Transmit on 144, 220, 440, 900, & 1296 Mhz Asking \$20
- 100 ft RG8 coax, asking \$7.
- Johnson Messenger 123A, 23 Channel CB radio (Could be converted to 10 Mtrs) Asking \$20
- Kantronics KAM all-mode TNC Version 5.0, Asking \$150

SB QST ARL ARLB011
ARLB011 FCC new toll-free number

The FCC has designated a new, toll-free (WATS) number for Amateur Radio license inquiries--including inquiries about vanity and new call signs. The new number, 888-225-5322, will connect callers to the FCC National Call Center, handled by the FCC's Consumer Information Bureau.

Callers to the old consumer information number will get a message referring them to the new number.

SB QST ARL ARLB008
ARLB008 Comments needed, Little LEO

Commercial satellite interests seeking access to bands below 1 GHz--including amateur allocations at 146 and 430 MHz--now have added

220 MHz to their "wish list." For the first time, Little LEO (low-earth-orbiting satellite) interests have proposed including 219-225 MHz in their list of desired allocations for the non-voice, non-geostationary (NVNG) mobile-satellite service (MSS). The

contained in the industry's so-called "flexible allocation proposal," delivered at the February 13, 1997, meeting of FCC Informal Working Group (IWG) 2A. Little LEO targets now include 146 to 148, 219 to 225 and 430 to 450 MHz. The ARRL and AMSAT were among those objecting to the concept, and the League is urging those who agree with their position to comment to the FCC by March 4. IWG-2A has been preparing draft proposals for the 1997 World Radiocommunication Conference (WRC-97). These will be reviewed during a March 5 meeting of the FCC's WRC-97 Industry Advisory Committee that is preparing draft proposals for consideration by the United States as it gets ready for WRC-97.

The ARRL and AMSAT statement said the latest proposal affecting amateur allocations in the 219 to 225 MHz segment came "at the last possible moment" and "without any technical support whatsoever." The League and AMSAT pointed out that the little LEO proponents have had more than a year to complete a technical study of the possibilities

of sharing with the amateur services in the 144 to 148 MHz and 420 to 450 MHz bands. "They have not demonstrated compatibility for sharing these amateur bands but over the evolution of their document have proposed various 'new ideas' for use of these bands."

The little LEO flexible allocation strategy for WRC-97--submitted as IWG-2A/86 (Rev. 6)--is to propose broad allocations. The apparent theory is that most administrations would find reasons to oppose little LEO use of specific bands in the crowded spectrum below 1 GHz, but that a broad allocation would permit different implementations in different countries depending on local circumstances.

At the February 13 meeting, a coalition of spectrum interests--including land mobile, amateur, broadcasting, and military--opposed the flexible allocation concept on three grounds: that the concept is simply an invention to avoid performing technical sharing studies that would demonstrate the unfeasibility of sharing; that it is inconsistent with decades of ITU allocations practices; and that, if adopted, the concept would be counter to US interests. The coalition document is identified as IWG-2A/1007.

The ARRL and AMSAT submitted a further statement of opposition, citing the absence of any technical studies that might support sharing with the amateur service or the amateur-satellite service and pointing out that the little LEOs have completely mischaracterized

Zero Beat

the nature of ITU Resolution 640 regarding the use of certain amateur bands in the event of natural disasters. The ARRL/AMSAT paper, revised to reflect opposition to the late proposal to include 219-225 MHz, is identified as IWG-2A/108 (Rev. 1).

Amateurs also might find interesting the comments of the Department of Defense, identified as IWG-2A/101 (Rev. 1). These address the 430 to 450 MHz segment the Little LEOs seek to share.

Anyone wishing to register support for the ARRL/AMSAT submission should send a brief e-mail message to wrc97fcc.gov. The Subject line should say "Reference No. ISP-96-005 IWG-2A." A simple statement to this effect, "I support the ARRL/AMSAT opposition to the NVNG MSS flexible allocation proposal," will be included in the public record and will help to drive home the point that there is broad-based opposition to poorly conceived sharing proposals.

Please note. The proposals the League opposes are not FCC proposals, nor are they endorsed by any other branch of the government. They are industry proposals. The League's objective is to demonstrate there is broad citizen opposition to the industry proposals, so the government will not adopt them as US proposals. So, please don't "flame" the FCC if you comment.

Additional arguments or evidence also is welcome. Important.

Comments should reach the FCC no later than March 4, 1997.

The complete ARRL/AMSAT opposition statement and other comments will be posted by February 15 on the ARRLWeb page, <http://www.arrl.org/> under Band Threat News.

SB SPCL ARL ARLX005
ARLX005 HAARP to air test transmission for hams

The High Frequency Active Auroral Research Program (HAARP) facility in Gakona, Alaska, will transmit a test signal on March 8, 1997, seeking reports from hams and SWLs in Alaska and in the "Lower 48" to determine how well the HAARP transmissions can be heard to the south.

During this test, the HAARP facility will transmit on or near the frequencies 3.4 MHz and 6.99 MHz to give listeners the opportunity to listen for the HAARP facility and to claim a QSL card. The test will be conducted beginning at 0430 UTC on March 8 (2330 Eastern Time on March 7).

The format of the test will be to transmit a constant carrier (no modulation) signal followed by a CW message at 10 WPM, according to the following schedule:

TIME	FREQ	SIGNAL
ANTENNA POSITION		

0430	6.99 MHz	Carrier only
Pointed up		
0435	6.99 MHz	CW message
Pointed up		
0440	6.99 MHz	Carrier only
Pointed to SE		
0445	6.99 MHz	CW message
Pointed to SE		
0450	3.4 MHz	Carrier only
Pointed up		
0455	3.4 MHz	CW message
Pointed up		

The transmission beginning at 0450 is primarily for Alaskan hams.

Reception reports should include signal strength during the constant carrier transmission period along with the text of the CW message.

Complete details on this test and a QSL address will be listed on the HAARP home page at <http://server5550.itd.nrl.navy.mil/announce.html>.

This space could have (should have?) been yours!!



Remember, this is our newsletter! Contact the editor with your suggestions!

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